provide a first channel of airflow information in an analog format, analog-to-digital conversion means for converting the first channel of airflow information in an analog format into a first channel of airflow information in a digital format, means filtering the airflow information in the digital format in the first channel of information to improve the signal-to-noise ratio of the signal to provide filtered airflow information, means operating on the filtered airflow information for estimating the amount of air volume inhaled and exhaled by the patient to provide a signal representing the estimated volume of air, a wavelet transform feature extractor for providing a [continuous- time] continuous-time wavelet transform of the estimated volume of air for ascertaining whether a breathing pattern has been recognized and providing a breathing pattern signal, a neural network pattern recognizer operating on the breathing pattern signal to ascertain when disordered breathing is occurring and providing a disordered breathing signal and means operating on the disordered breathing signal to separate the disordered breathing into apnea and hypopnea categories.

Claim 6, line 1, delete "5" and replace with --1--.

11. (Amended) A method for detecting a breath pattern of a breathing patient having lungs and a nose and a mouth in communication with the lungs and breathing through the nose and/or mouth and creating an airflow into and out of the lungs, comprising detecting said airflow [from the nose and/or mouth of the patient] and providing a first channel of airflow information in an analog format, converting the first channel of information in analog format into a digital format, filtering the airflow information in the digital format to improve the signal-to-noise ratio in the airflow information, estimating the air volume inhaled and exhaled by the patient, providing a continuous-time wavelet transform of the estimated volume of air to ascertain when a breathing pattern is being recognized, ascertaining whether the breathing pattern is an abnormal breathing pattern, and classifying the abnormal breathing pattern into apnea and hypopnea events.

REMARKS

The Examiner has pointed out that section headings are missing. Applicant wishes to point out that the specification is arranged in the manner suggested by the Examiner. However, section headings have not been included since they are not required. Applicant has found that the use of such section headings is undesirable particularly in connection with the foreign filing